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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (2013), at 105.	 Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1813.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**ip igmp snooping version** To configure the IGMP version number for VLAN, use the ip igmp snooping version command. To return to the default settings, use the no form of this command. ip igmp snooping version *value* no ip igmp snooping version *value* **Syntax Description** *value* Version number value. The range is from 2 to 3. **Defaults** None. **Command Modes** VLAN configuration (config-vlan) **SupportedUserRoles** network-admin vdc-admin **Command History** Release Modification 5.1(1) This command was introduced. **Usage Guidelines** This command does not require a license. **Examples** This example shows how to configure IGMP version number for VLAN: switch(config-vlan-config)# ip igmp snooping version 3 switch(config-vlan-config)# **Related Commands** Command Description show ip igmp snooping Displays IGMP snooping information. Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (2013), at 108.	**ip igmp snooping querier version** The ip igmp snooping querier version command configures the Internet Group Management Protocol (IGMP) snooping querier version on the configuration mode interfaces. Version 3 is the default IGMP version. IGMP is enabled by the ip pim sparse-mode command. The ig igmp snooping querier version command does not affect the IGMP enabled status. The no ip igmp snooping querier version and default ip igmp snooping querier version commands restore the configuration mode to IGMP version 3 by removing the ip igmp snooping querier version statement from *running-config*. Platform all Command Mode Global Configuration **Command Syntax** ip igmp snooping querier version *version_number* no ip igmp snooping querier version default ip igmp snooping querier version **Parameters** • *version_number* IGMP version number. Value ranges from 1 to 3. Default value is 3. **Example** • This command configures IGMP snooping querier version 2. switch(config)#ip igmp snooping querier version 2 switch(config)# • This command restores the IGMP snooping querier to version 2. switch(config)# no ip igmp snooping querier version switch(config)# Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1815.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Examples** This example shows how to display information about IGMP snooping queriers: ```switch(config)# show ip igmp snooping querier Vlan IP Address Version Port 1 172.20.50.11 v3 fa2/1 2 172.20.40.20 v2 Router switch(config)#``` Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (2013), at 50.	**Example** • This command displays the querier IP address, version, and port servicing each VLAN. ```switch>show ip igmp snooping querier Vlan IP Address Version Port -- 1 172.17.0.37 v2 Po1 20 172.17.20.1 v2 Po1 26 172.17.26.1 v2 Cpu 2028 172.17.255.29 v2 Po1 switch>``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1860.

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Effective date of registration: 11/13/2014
	aaa group server tacacs+
	
	To create a TACACS+ server group and enter TACACS+ server group configuration mode, use the aaa group server tacacs+ command. To delete a TACACS+ server group, use the no form of this command.
	
	   aaa group server tacacs+ *group-name*
	
	   no aaa group server tacacs+ *group-name*
	
	Syntax Description *group-name* TACACS+ server group name. The name is alphanumeric and case-sensitive. The maximum length is 64 characters.
	
	Defaults None
	
	Command Modes Global configuration
	
	SupportedUserRoles network-admin
	       vdc-admin
	
	Command History Release Modification
	      4.0(1) This command was introduced.
	
	Usage Guidelines You must use the **feature tacacs+** command before you configure TACACS+.
	
	This command does not require a license.
	
	Examples This example shows how to create a TACACS+ server group and enter TACACS+ server configuration mode:
	
	`switch# configure terminal`
	`switch(config)# aaa group server tacacs+ TacServer`
	`switch(config-radius)#`
	
	This example shows how to delete a TACACS+ server group:
	
	`switch# configure terminal`
	`switch(config)# no aaa group server tacacs+ TacServer`
	
	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-34.
		aaa group server tacacs+
		
		The aaa group server tacacs+ command enters server-group-tacacs+ configuration mode for the specified group name. The command creates the specified group if it was not previously created. Commands are available to add servers to the group.
		
		A server group is a collection of servers that are associated with a single label. Subsequent authorization and authentication commands access all servers in a group by invoking the group name. Server group members must be previously configured with a **tacacs-server host** command.
		
		The no aaa group server tacacs+ and default aaa group server tacacs+ commands delete the specified server group from *running-config*.
		
		Platform all
		Command Mode Global Configuration
		
		Command Syntax
		`aaa group server tacacs+ group_name`
		`no aaa group server tacacs+ group_name`
		`default aaa group server tacacs+ group_name`
		
		Parameters
		• *group_name* name (text string) assigned to the group. Cannot be identical to a name already assigned to a RADIUS server group.
		
		Commands Available in server-group-tacacs+ Configuration Mode
		• server (server-group-TACACS+ configuration mode)
		
		Related Commands
		• aaa group server radius
		
		Example
		• This command creates the TACACS+ server group named TAC-GR and enters server group configuration mode for the new group.
		
		`switch(config)#aaa group server tacacs+ TAC-GR`
		`switch(config-sg-tacacs+-TAC-GR)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 225.

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	dot1x pae authenticator
	
	To create the 802.1X authenticator port access entity (PAE) role for an interface, use the **dot1x pae authenticator** command. To remove the 802.1X authenticator PAE role, use the **no** form of this command.
	
	`dot1x pae authenticator`
	
	`no dot1x pae authenticator`
	
	Syntax Description — This command has no arguments or keywords.
	
	Defaults — 802.1X automatically creates the authenticator PAE when you enable the feature on an interface.
	
	Command Modes — Interface configuration
	
	SupportedUserRoles — network-admin / vdc-admin
	
	Command History — Release 4.2(1) — This command was introduced.
	
	Usage Guidelines — You must use the **feature dot1x** command before you configure 802.1X.
	
	When you enable 802.1X on an interface, the Cisco NX-OS software creates an authenticator port access entity (PAE) instance. An authenticator PAE is a protocol entity that supports authentication on the interface. When you disable 802.1X on the interface, the Cisco NX-OS software does not automatically clear the authenticator PAE instances. You can explicitly remove the authenticator PAE from the interface and then reapply it, as needed.
	
	This command does not require a license.
	
	Examples — This example shows how to create the 802.1X authenticator PAE role on an interface:
	
	`switch# configure terminal`
	`switch(config)# interface ethernet 2/4`
	`switch(config-if)# dot1x pae authenticator`
	
	This example shows how to remove the 802.1X authenticator PAE role from an interface:
	
	`switch# configure terminal`
	`switch(config)# interface ethernet 2/4`
	`switch(config-if)# no dot1x pae authenticator`
	
	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-191.
		dot1x pae authenticator
		
		The dot1x pae authenticator command sets the Port Access Entity (PAE) type. The interface acts only as an authenticator and will not respond to any messages meant for a supplicant.
		
		The no dot1x pae authenticator and default dot1x pae authenticator commands restore the switch default by deleting the corresponding dot1x pae authenticator command from *running-config*.
		
		Platform — all
		Command Mode — Interface-Ethernet Configuration / Interface-Management Configuration
		
		Command Syntax
		`dot1x pae authenticator`
		`no dot1x pae authenticator`
		`default dot1x pae authenticator`
		
		Example
		• This command configures the port as an IEEE 802.1x port access entity (PAE) authenticator, which enables IEEE 802.1x on the port but does not allow clients connected to the port to be authorized, use the dot1x pae authenticator interface configuration command.
		
		`switch(config-if-Et1)#interface ethernet 2`
		`switch(config-if-Et1)#dot1x pae authenticator`
		`switch(config-if-Et1)#`
		
		• This example shows how to disable IEEE 802.1x authentication on the port.
		
		`switch(config-if-Et1)#interface ethernet 2`
		`switch(config-if-Et1)#no dot1x pae authenticator`
		`switch(config-if-Et1)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 566.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**dot1x timeout quiet-period** To configure the 802.1X quiet-period timeout globally or for an interface, use the dot1x timeout quiet-period command. To revert to the default, use the no form of this command. dot1x timeout quiet-period *seconds* no dot1x timeout quiet-period **Syntax Description** *seconds* Number of seconds for the 802.1X quiet period timeout. The range is from 1 to 65535. **Defaults** Global configuration: 60 seconds Interface configuration: The value of the global configuration **Command Modes** Global configuration Interface configuration **SupportedUserRoles** network-admin vdc-admin **Command History** Release Modification 4.0(1) This command was introduced. **Usage Guidelines** The 802.1X quiet period timeout is the number of seconds that the device remains in the quiet state following a failed authentication exchange with a supplicant. You must use the feature dot1x command before you configure 802.1X. **Note** You should change the default value only to adjust for unusual circumstances, such as unreliable links or specific behavioral problems with certain supplicants and authentication servers. This command does not require a license. **Examples** This example shows how to configure the global 802.1X quiet period timeout: switch# configure terminal switch(config)# dot1x timeout quiet-period 45 Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-200.	**dot1x timeout quiet-period** The dot1x timeout quiet-period command sets the number of seconds that the switch remains in the quiet state following a failed authentication exchange with the client. The range is 1 to 65535 seconds; the default is 60. When the switch cannot authenticate the client, the switch remains idle for a set period of time and then tries again. You can provide a faster response time to the user by entering a number smaller than the default. The no dot1x timeout quiet-period and default dot1x timeout quiet-period commands restore the default advertisement interval of 60 seconds by removing the corresponding dot1x timeout quiet-period command from *running-config*. Platform all Command Mode Interface-Ethernet Configuration Interface-Management Configuration **Command Syntax** dot1x timeout quiet-period *quiet_time* no dot1x timeout quiet-period default dot1x timeout quiet-period **Parameters** • *quiet_time* advertisement interval (seconds). Values range from 1 to 65535. Default value is 60. **Example** • This command sets the number of seconds that an authenticator port waits after a failed authentication with a client before accepting authentication requests again. switch(config)#interface Ethernet 1 switch(config-if-Et1)#dot1x timeout quiet-period 600 switch(config-if-Et1)# Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 569.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To use this command, you must enable the DHCP snooping feature (see the **feature dhcp** command). You can configure up to four DHCP server IP addresses on Layer 3 Ethernet interfaces and subinterfaces, VLAN interfaces, and Layer 3 port channels. In Cisco NX-OS Release 4.0.2 and earlier releases, you can configure only one DHCP server IP address on an interface. When an inbound DHCP BOOTREQUEST packet arrives on the interface, the relay agent forwards the packet to all DHCP server IP addresses specified on that interface. The relay agent forwards replies from all DHCP servers to the host that sent the request. This command does not require a license. Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-309.	The ip dhcp snooping information option command enables the insertion of option-82 DHCP snooping information in DHCP packets on VLANs where DHCP snooping is enabled. DHCP snooping is a layer 2 switch process that allows relay agents to provide remote-ID and circuit-ID information to DHCP reply and request packets. DHCP servers use this information to determine the originating port of DHCP requests and associate a corresponding IP address to that port. DHCP snooping uses information option (Option-82) to include the switch MAC address (router-ID) along with the physical interface name and VLAN number (circuit-ID) in DHCP packets. After adding the information to the packet, the DHCP relay agent forwards the packet to the DHCP server through DHCP protocol processes. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1270.

EXHIBIT A TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

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Effective date of registration: 11/13/2014
	ip dhcp relay information option
	
	To enable the device to insert and remove option-82 information on DHCP packets forwarded by the relay agent, use the ip dhcp relay information option command. To disable the insertion and removal of option 82 information, use the no form of this command.
	
	ip dhcp relay information option
	
	no ip dhcp relay information option
	
	Syntax Description: This command has no arguments or keywords.
	
	Defaults: By default, the device does not insert and remove option-82 information on DHCP packets forwarded by the relay agent.
	
	Command Modes: Global configuration
	
	SupportedUserRoles: network-admin, vdc admin
	
	Command History: Release 4.0(1) — This command was introduced.
	
	Usage Guidelines: To use this command, you must enable the DHCP snooping feature (see the feature dhcp command). This command does not require a license.
	
	Examples: This example shows how to enable the DHCP relay agent to insert and remove option-82 information to and from packets it forwards:
	
	`switch# configure terminal`
	`switch(config)# ip dhcp relay information option`
	`switch(config)#`
	
	Related Commands:
	ip dhcp relay — Enables or disables the DHCP relay agent.
	ip dhcp relay address — Configures the IP address of a DHCP server on an interface.
	ip dhcp relay sub-option type cisco — Enables DHCP to use Cisco proprietary numbers 150, 152, and 151 when filling the link selection, server ID override, and VRF name/VPN ID relay agent option 82 suboptions.
	ip dhcp snooping — Globally enables DHCP snooping on the device.
	
	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-311.
		ip dhcp relay information option (Global)
		
		The ip dhcp relay information option command configures the switch to attach tags to DHCP requests before forwarding them to the DHCP servers designated by ip helper-address commands. The ip dhcp relay information option circuit-id command specifies the tag contents for packets forwarded by the interface that it configures.
		
		The no ip dhcp relay information option and default ip dhcp relay information option commands restore the switch's default setting of not attaching tags to DHCP requests by removing the ip dhcp relay information option command from *running-config*.
		
		Platform all
		Command Mode Global Configuration
		
		Command Syntax
		`ip dhcp relay information option`
		`no ip dhcp relay information option`
		`default ip dhcp relay information option`
		
		Related Commands
		These commands implement DHCP relay agent.
		
		• ip helper-address
		• ip dhcp relay always-on
		• ip dhcp relay information option circuit-id
		
		Example
		• This command enables the attachment of tags to DHCP requests that are forwarded to DHCP server addresses.
		
		`switch(config)#ip dhcp relay information option`
		`switch(config)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1264.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Related Commands** | Command	Description
ip dhcp relay	Enables or disables the DHCP relay agent.
ip dhcp relay address	Configures the IP address of a DHCP server on an interface.
ip dhcp relay sub-option type cisco	Enables DHCP to use Cisco proprietary numbers 150, 152, and 151 when filling the link selection, server ID override, and VRF name/VPN ID relay agent option-82 suboptions.
ip dhcp snooping	Globally enables DHCP snooping on the device. | Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-311.	**Related Commands** • **ip dhcp snooping** globally enables DHCP snooping. • **ip dhcp snooping vlan** enables DHCP snooping on specified VLANs. • **ip helper-address** enables the DHCP relay agent on a configuration mode interface. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1270.

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	Examples This example shows how to enable VRF support for the DHCP relay agent, which is dependent upon enabling Option-82 support for the DHCP relay agent, and how to configure a DHCP server address on a Layer 3 interface when the DHCP server is in a VRF named SiteA:
	
	`switch# configure terminal`
	`switch(config)# ip dhcp relay information option`
	`switch(config)# ip dhcp relay information option vpn`
	`switch(config)# interface ethernet 1/3`
	`switch(config-if)# ip dhcp relay address 10.43.87.132 use-vrf SiteA`
	`switch(config-if)#`
	
	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-314.
		Example
		• This command enables the attachment of tags to DHCP requests that are forwarded to DHCP server addresses.
		
		`switch(config)#ip dhcp relay information option`
		`switch(config)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1237.

Cisco NX-OS 6.2 Effective date of registration: 11/13/2014		Command	Description
feature dhcp	Enables the DHCP snooping feature on the device.
ip dhcp relay	Enables the DHCP relay agent.
ip dhcp relay address	Configures an IP address of a DHCP server on an interface.
ip dhcp relay information option	Enables the insertion and removal of option-82 information from DHCP packets forwarded by the DHCP relay agent.

ip dhcp snooping	Globally enables DHCP snooping on the device. |
	
	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-317.
		Example
		• This command enables the DHCP relay agent.
		
		`switch(config)#ip dhcp relay always-on`
		`switch(config)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1263.

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**ip dhcp smart-relay** To enable Dynamic Host Configuration Protocol (DHCP) smart relay on a Layer 3 interface, use the ip dhcp smart-relay command. To disable DHCP smart relay on a Layer 3 interface, use the no form of this command. ip dhcp smart-relay no ip dhcp smart-relay **Syntax Description** This command has no arguments or keywords. **Defaults** Disabled **Command Modes** Interface configuration mode (config-if) **SupportedUserRoles** network-admin vdc-admin Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-319.	**ip dhcp smart-relay** The ip dhcp smart-relay command configures the DHCP smart relay status on the configuration mode interface. DHCP smart relay supports forwarding DHCP requests with a client's secondary IP addresses in the gateway address field. Enabling DHCP smart relay on an interface requires that DHCP relay is also enabled on that interface. By default, an interface assumes the global DHCP smart relay setting as configured by the ip dhcp smart-relay global command. The ip dhcp smart-relay command, when configured, takes precedence over the global smart relay setting. The no ip dhcp smart-relay command disables DHCP smart relay on the configuration mode interface. The default ip dhcp smart-relay command restores the interface's to the default DHCP smart relay setting, as configured by the ip dhcp smart-relay global command, by removing the corresponding ip dhcp smart-relay or no ip dhcp smart-relay statement from *running-config*. Platform all Command Mode Interface-Ethernet Configuration Interface-Port-channel Configuration Interface-VLAN Configuration Command Syntax ip dhcp smart-relay no ip dhcp smart-relay default ip dhcp smart-relay Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1266.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Related Commands** | Command	Description
---	---
ip dhcp smart-relay	Enables DHCP smart relay on a Layer 3 interface.
ip dhcp relay	Enable the DHCP relay agent. | Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-322.	**Related Commands** • ip helper-address enables the DHCP relay agent on a configuration mode interface. • ip dhcp smart-relay enables the DHCP smart relay agent on a configuration mode interface. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1268.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Examples** This example shows how to globally enable DHCP snooping: switch# **configure terminal** switch(config)# **ip dhcp snooping** switch(config)# **Related Commands** | Command	Description
---	---
feature dhcp	Enables the DHCP snooping feature on the device.
ip dhcp relay	Enables or disables the DHCP relay agent.
ip dhcp snooping information option	Enables the insertion and removal of option-82 information for DHCP packets forwarded without the use of the DHCP relay agent.
ip dhcp snooping trust	Configures an interface as a trusted source of DHCP messages.
ip dhcp snooping vlan	Enables DHCP snooping on the specified VLANs. | Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-323.	Command Syntax ip dhcp snooping no ip dhcp snooping default ip dhcp snooping Related Commands • ip dhcp snooping information option enables insertion of option-82 snooping data. • ip dhcp snooping vlan enables DHCP snooping on specified VLANs. • ip helper-address enables the DHCP relay agent on a configuration mode interface. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1269.

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	ip dhcp snooping information option To enable the insertion and removal of option-82 information for DHCP packets, use the ip dhcp snooping information option command. To disable the insertion and removal of option-82 information, use the no form of this command. ip dhcp snooping information option no ip dhcp snooping information option **Syntax Description** This command has no arguments or keywords. **Defaults** By default, the device does not insert and remove option-82 information. **Command Modes** Global configuration **SupportedUserRoles** network-admin vdc-admin **Command History** Release Modification 4.0(1) This command was introduced. **Usage Guidelines** To use this command, you must enable the DHCP snooping feature (see the feature dhcp command). This command does not require a license. **Examples** This example shows how to globally enable DHCP snooping: switch# configure terminal switch(config)# ip dhcp snooping information option switch(config)# **Related Commands** Command Description ip dhcp relay information option — Enables the insertion and removal of option-82 information from DHCP packets forwarded by the DHCP relay agent. ip dhcp snooping — Globally enables DHCP snooping on the device. ip dhcp snooping trust — Configures an interface as a trusted source of DHCP messages. ip dhcp snooping vlan — Enables DHCP snooping on the specified VLANs.	**ip dhcp snooping information option** The ip dhcp snooping information option command enables the insertion of option-82 DHCP snooping information in DHCP packets on VLANs where DHCP snooping is enabled. DHCP snooping is a layer 2 switch process that allows relay agents to provide remote-ID and circuit-ID information to DHCP reply and request packets. DHCP servers use this information to determine the originating port of DHCP requests and associate a corresponding IP address to that port. DHCP snooping uses information option (Option-82) to include the switch MAC address (router-ID) along with the physical interface name and VLAN number (circuit-ID) in DHCP packets. After adding the information to the packet, the DHCP relay agent forwards the packet to the DHCP server through DHCP protocol processes. VLAN snooping on a specified VLAN requires each of these conditions: • DHCP snooping is globally enabled. • Insertion of option-82 information in DHCP packets is enabled. • DHCP snooping is enabled on the specified VLAN. • DHCP relay is enabled on the corresponding VLAN interface. When global DHCP snooping is not enabled, the ip dhcp snooping information option command persists in *running-config* without any operational effect. The no ip dhcp snooping information option and default ip dhcp snooping information option commands disable the insertion of option-82 DHCP snooping information in DHCP packets by removing the ip dhcp snooping information option statement from *running-config*. Platform Trident Command Mode Global Configuration **Command Syntax** ip dhcp snooping information option no ip dhcp snooping information option default ip dhcp snooping information option **Related Commands** • ip dhcp snooping globally enables DHCP snooping. • ip dhcp snooping vlan enables DHCP snooping on specified VLANs. • ip helper-address enables the DHCP relay agent on a configuration mode interface. **Example** • These commands enable DHCP snooping on DHCP packets from ports on snooping-enabled VLANs. DHCP snooping was previously enabled on the switch. switch(config)#ip dhcp snooping information option switch(config)#show ip dhcp snooping DHCP Snooping is enabled DHCP Snooping is operational DHCP Snooping is configured on following VLANs: 100 DHCP Snooping is operational on following VLANs: 100 Insertion of Option-82 is enabled Circuit-id format: Interface name:Vlan ID Remote-id: 00:1c:73:1f:b4:38 (Switch MAC) switch(config)#
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-325.	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1270.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Related Commands** | Command	Description
---	---
ip dhcp snooping	Globally enables DHCP snooping on the device.
ip dhcp snooping information option	Enables the insertion and removal of Option-82 information for DHCP packets forwarded without the use of the DHCP relay agent.
ip dhcp snooping verify mac-address	Enables MAC address verification as part of DHCP snooping.
ip dhcp snooping vlan	Enables DHCP snooping on the specified VLANs.
show ip dhcp snooping	Displays general information about DHCP snooping.
show running-config dhcp	Displays DHCP snooping configuration, including IP Source Guard configuration. | Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-328.	**ip dhcp snooping vlan** The ip dhcp snooping vlan command enables DHCP snooping on specified VLANs. DHCP snooping is a layer 2 process that allows relay agents to provide remote-ID and circuit-ID information in DHCP packets. DHCP servers use this data to determine the originating port of DHCP requests and associate a corresponding IP address to that port. DHCP snooping is configured on a global and VLAN basis. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1271.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014		Command	Description
---	---
ip dhcp snooping trust	Configures an interface as a trusted source of DHCP messages.
ip dhcp snooping vlan	Enables DHCP snooping on the specified VLANs.
show ip dhcp snooping	Displays general information about DHCP snooping.
show running-config dhcp	Displays DHCP snooping configuration, including IP Source Guard configuration. | Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-330.	**Related Commands** - ip dhcp snooping globally enables DHCP snooping. - ip dhcp snooping vlan enables DHCP snooping on specified VLANs. - ip dhcp snooping information option enables insertion of option-82 snooping data. - ip helper-address enables the DHCP relay agent on a configuration mode interface. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1302.

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| Cisco NX-OS 6.2<br><br>Effective date of registration: 11/13/2014 | **ip dhcp snooping vlan**<br><br>To enable DHCP snooping one or more VLANs, use the ip dhcp snooping vlan command. To disable DHCP snooping on one or more VLANs, use the no form of this command.<br><br>ip dhcp snooping vlan *vlan list*<br><br>no ip dhcp snooping vlan *vlan-list*<br><br>**Syntax Description** — *vlan-list* — Range of VLANs on which to enable DHCP snooping. The *vlan-list* argument allows you to specify a single VLAN ID, a range of VLAN IDs, or comma-separated IDs and ranges (see the "Examples" section). Valid VLAN IDs are from 1 to 4096.<br><br>**Defaults** — By default, DHCP snooping is not enabled on any VLAN.<br><br>**Command Modes** — Global configuration<br><br>**SupportedUserRoles** — network-admin / vdc-admin<br><br>**Command History** — Release 4.0(1) — This command was introduced.<br><br>**Usage Guidelines** — To use this command, you must enable the DHCP snooping feature (see the feature dhcp command). This command does not require a license.<br><br>**Examples** — This example shows how to enable DHCP snooping on VLANs 100, 200, and 250 through 252:<br><br>```
switch# configure terminal
switch(config)# ip dhcp snooping vlan 100,200,250-252
switch(config)#
```<br><br>**Related Commands**<br><br>| Command | Description |<br>|---|---|<br>| ip dhcp snooping | Globally enables DHCP snooping on the device. |<br>| ip dhcp snooping information option | Enables the insertion and removal of option-82 information for DHCP packets forwarded without the use of the DHCP relay agent. |<br>| ip dhcp snooping trust | Configures an interface as a trusted source of DHCP messages. |<br><br>Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-331. | **ip dhcp snooping vlan**<br><br>The ip dhcp snooping vlan command enables DHCP snooping on specified VLANs. DHCP snooping is a layer 2 process that allows relay agents to provide remote-ID and circuit-ID information in DHCP packets. DHCP servers use this data to determine the originating port of DHCP requests and associate a corresponding IP address to that port. DHCP snooping is configured on a global and VLAN basis.<br><br>VLAN snooping on a specified VLAN requires each of these conditions:<br><br>• DHCP snooping is globally enabled.<br>• Insertion of option-82 information in DHCP packets is enabled.<br>• DHCP snooping is enabled on the specified VLAN.<br>• DHCP relay is enabled on the corresponding VLAN interface.<br><br>When global DHCP snooping is not enabled, the ip dhcp snooping vlan command persists in *running-config* without any operational affect.<br><br>The no ip dhcp snooping information option and default ip dhcp snooping information option commands disable DHCP snooping operability by removing the ip dhcp snooping information option statement from *running-config*.<br><br>Platform — Trident<br>Command Mode — Global Configuration<br><br>**Command Syntax**<br><br>```
ip dhcp snooping vlan v_range
no ip dhcp snooping vlan v_range
default ip dhcp snooping vlan v_range
```<br><br>**Parameters**<br><br>• *v_range* — VLANs upon which snooping is enabled. Formats include a number, a number range, or a comma-delimited list of numbers and ranges. Numbers range from 1 to 4094.<br><br>**Related Commands**<br><br>• ip dhcp snooping globally enables DHCP snooping.<br>• ip dhcp snooping information option enables insertion of option-82 snooping data.<br>• ip helper-address enables the DHCP relay agent on a configuration mode interface.<br><br>**Example**<br><br>• These commands enable DHCP snooping globally, DHCP on VLAN interface100, and DHCP snooping on VLAN 100.<br><br>```
switch(config)#ip dhcp snooping
switch(config)#ip dhcp snooping information option
switch(config)#ip dhcp snooping vlan 100
switch(config)#interface vlan 100
switch(config-if-V1100)#ip helper-address 10.4.4.4
switch(config-if-V1100)#show ip dhcp snooping
DHCP Snooping is enabled
DHCP Snooping is operational
DHCP Snooping is configured on following VLANs:
   100
DHCP Snooping is operational on following VLANs:
   100
Insertion of Option-82 is enabled
   Circuit-id format: Interface name:Vlan ID
   Remote-id: 00:1c:73:1f:b4:38 (Switch MAC)
switch(config)#
```<br><br>Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1302. |

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Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	set-dscp-transmit *dscp-value* Specifies the differentiated services code point (DSCP) value for IPv4 and IPv6 packets. The range is from 0 to 63. Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-444.	**qos dscp** The qos dscp command specifies the default differentiated services code point (DSCP) value of the configuration mode interface. The default DSCP determines the traffic class for non-IP packets that are inbound on DSCP trusted ports. DSCP trusted ports determine the traffic class for inbound packets as follows: Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1093.

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	policy-map type control-plane To create or specify a control plane policy map and enter policy map configuration mode, use the policy-map type control-plane command. To delete a control plane policy map, use the no form of this command. policy-map type control-plane policy-map-name no policy-map type control-plane policy-map-name Syntax Description policy-map-name Name of the class map. The name is alphanumeric, case sensitive, and has a maximum of 64 characters. Defaults None Command Modes Global configuration SupportedUserRoles network-admin / vdc admin Command History Release 4.0(1) Modification This command was introduced. Usage Guidelines You can use this command only in the default VDC. This command does not require a license. Examples This example shows how to specify a control plane policy map and enter policy map configuration mode: switch# config t switch(config)# policy-map type control-plane PolicyMapA switch(config-pmap)# This example shows how to delete a control plane policy map: switch# config t switch(config)# no policy-map type control-plane PolicyMapA Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-448.	**policy-map type control-plane** The policy-map type control-plane command places the switch in Policy-Map (control plane) configuration mode, which is a group change mode that modifies a control-plane policy map. A policy map is a data structure that consists of class maps that identify a specific data stream and specify bandwidth and shaping parameters that controls its transmission. Control plane policy maps are applied to the control plane to manage traffic. The copp-system-policy policy map is supplied with the switch and is always applied to the control plane. Copp-system-policy is the only valid control plane policy map. The exit command saves pending policy map changes to running-config and returns the switch to global configuration mode. Policy map changes are also saved by entering a different configuration mode. The abort command discards pending changes, returning the switch to global configuration mode. The no policy-map type control-plane and default policy-map type control-plane commands delete the specified policy map by removing the corresponding policy-map type control-plane command and its associated configuration. Platform FM6000, Petra, Trident Command Mode Global Configuration Command Syntax policy-map type control-plane copp-system-policy no policy-map type control-plane copp-system-policy default policy-map type control-plane copp-system-policy copp-system-policy is supplied with the switch and is the only valid control plane policy map. Commands Available in Policy-Map Configuration Mode • class (policy-map (control-plane) – FM6000) • class (policy-map (control-plane) – Trident) Related Commands • class-map type control-plane enters control-plane class-map configuration mode. Example • This command places the switch in policy-map configuration mode to edit the copp-system-policy policy map. switch(config)#policy-map type control-plane copp-system-policy switch(config-pmap-copp-system-policy)# Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1194.

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Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2

Effective date of registration: 11/13/2014 | To view per-entry statistics, use the show access-lists command or the applicable following command:
- show ip access-lists
- show ipv6 access-lists
- show mac access-lists

Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-517. | **Displaying Contents of an ACL**

These commands display ACL contents.

- show ip access-lists
- show ipv6 access-lists
- show mac access-lists

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 845. |
| Cisco NX-OS 6.2

Effective date of registration: 11/13/2014 | **Examples**   This example shows how to display control plane class map information:

```
switch# show class-map type control-plane

    class-map type control-plane match-any copp-system-class-critical
      match access-grp name copp-system-acl-arp
      match access-grp name copp-system-acl-msdp

    class-map type control-plane match-any copp-system-class-important
      match access-grp name copp-system-acl-gre
      match access-grp name copp-system-acl-tacas

    class-map type control-plane match-any copp-system-class-normal
      match access-grp name copp-system-acl-icmp
      match redirect dhcp-snoop
      match redirect arp-inspect
      match exception ip option
      match exception ip icmp redirect
      match exception ip icmp unreachable
```

Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-552. | **Example**
- This command displays all control plane class maps.
- This command displays the available control plane class maps.

```
switch>show class-map type control-plane
    Class-map: CM-CP1 (match-any)
      Match: ip access-group name LIST-CP1
    Class-map: copp-system-acllog (match-any)
    Class-map: copp-system-arp (match-any)
    Class-map: copp-system-arpresolver (match-any)
    Class-map: copp-system-bpdu (match-any)
    Class-map: copp-system-glean (match-any)
    Class-map: copp-system-igmp (match-any)
    Class-map: copp-system-ipmcmiss (match-any)
    Class-map: copp-system-ipmcrsvd (match-any)
    Class-map: copp-system-l3destmiss (match-any)
    Class-map: copp-system-l3slowpath (match-any)
    Class-map: copp-system-l3ttl1 (match-any)
    Class-map: copp-system-lacp (match-any)
    Class-map: copp-system-lldp (match-any)
    Class-map: copp-system-selfip (match-any)
    Class-map: copp-system-selfip-tc6to7 (match-any)
    Class-map: copp-system-sflow (match-any)
    Class-map: copp-system-tc3to5 (match-any)
    Class-map: copp-system-tc6to7 (match-any)
switch>
```

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1212. |

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Examples — This example shows how to display the DHCP relay status and configured DHCP server addresses: ``` switch# show ip dhcp relay DHCP relay service is enabled Insertion of option 82 is enabled Insertion of VPN suboptions is enabled Helper addresses are configured on the following interfaces: Interface Relay Address VRF Name ----------- ------------- -------- Ethernet1/4 10.10.10.1 red switch# ``` Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-630.	Example • This command displays the DHCP relay agent configuration status. ``` switch>show ip dhcp relay DHCP servers: 172.22.22.11 Vlan1000: DHCP clients are permitted on this interface ``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1237.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Examples This example shows how to display general status information about DHCP snooping: ``` switch# show ip dhcp snooping DHCP snooping service is enabled Switch DHCP snooping is enabled DHCP snooping is configured on the following VLANs: 1,13 DHCP snooping is operational on the following VLANs: 1 Insertion of Option 82 is disabled Verification of MAC address is enabled DHCP snooping trust is configured on the following interfaces: Interface Trusted ------------ ------- Ethernet2/3 Yes switch# ``` Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-634.	Example • This command DHCP snooping hardware status. ``` switch>show ip dhcp snooping hardware DHCP Snooping is enabled DHCP Snooping is enabled on following VLANs: None Vlans enabled per Slice Slice: FixedSystem None switch> ``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1304.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-661.	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 632.

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Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-664. |

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 698. |
| Cisco NX-OS 6.2

Effective date of registration: 11/13/2014 |

Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-695. | **ip dhcp snooping**

The ip dhcp snooping command enables DHCP snooping globally on the switch. DHCP snooping is a set of layer 2 processes that can be configured on LAN switches and used with DHCP servers to control network access to clients with specific IP/MAC addresses. The swtich supports Option-82 insertion, which is a DHCP snooping process that allows relay agents to provide remote-ID and circuit-ID information to DHCP reply and request packets. DHCP servers use this information to determine the originating port of DHCP requests and associate a corresponding IP address to that port. DHCP servers use port information to track host location and IP address usage by authorized physical ports.

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1269. |

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Usage Guidelines** In order for LLDP to discover servers connected to your device, the servers must be running openLLDP software. LLDP must be enabled on the device before you can enable or disable it on any interfaces. **Note** LLDP is supported only on physical interfaces. LLDP timers and type, length, and value (TLV) descriptions cannot be configured using Cisco DCNM. LLDP can discover up to one device per port. LLDP can discover up to one server per port. LLDP can discover only Linux servers that are connected to your device. LLDP can discover Linux servers, if they are not using a converged network adapter (CNA); however, LLDP cannot discover other types of servers. Make sure that you are in the correct virtual device context (VDC). To switch VDCs, use the switchto vdc command. This command does not require a license. Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 174.	12.2.4 Guidelines and Limitations LLDP has the following configuration guidelines and limitations: • LLDP must be enabled on the device before you can enable or disable it on any interface. • LLDP is supported only on physical interfaces. • LLDP can discover up to one device per port. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 576.

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2

Effective date of registration: 11/13/2014 | **lldp holdtime**

To configure the amount of time that a receiving device should hold the information sent by your device before discarding it, use the **lldp holdtime** command. To remove the hold time configuration, use the **no** form of this command.

lldp holdtime *seconds*

Syntax Description   *seconds*   Hold time in seconds. The range is from 10 to 255 seconds.

Defaults   120 seconds

Command Modes   Global configuration mode (config)

SupportedUserRoles   network-admin
network-operator
vdc-admin
vdc-operator

Command History   Release   Modification
5.0(1)   This command was introduced.

Usage Guidelines   Make sure that you are in the correct virtual device context (VDC). To switch VDCs, use the **switchto vdc** command.
This command does not require a license.

Examples   This example shows how to configure the Link Layer Discovery Protocol (LLDP) hold time:
`switch(config)# lldp holdtime 180`
`switch(config)#`

This example shows how to remove the LLDP hold time configuration:
`switch(config)# no lldp holdtime 180`
`switch(config)#`

Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 228. | **lldp holdtime**

The lldp holdtime command specifies the amount of time a receiving device should hold the information sent by the device before discarding it.

Platform   all
Command Mode   Global Configuration

Command Syntax
`lldp holdtime period`
`no lldp holdtime`
`default lldp holdtime`

Parameters
- *period*   The amount of time a receiving device should hold the LLDPDU information sent before discarding it. Value ranges from 10 to 65535 second; default value is 120 seconds.

Examples
- This command sets the amount of time to 180 seconds before the receiving device discards the LLDPDU information.
`switch(config)# lldp holdtime 180`
`switch(config)#`

- This command removes the configured time before the receiving device discards the LLDPDU information.
`switch(config)# no lldp holdtime 180`
`switch(config)#`

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 585. |

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 228.	**lldp reinit** The lldp reinit command specifies the delay time in seconds for LLDP to initialize on any interface. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 589.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 231.	**lldp transmit** The lldp transmit command enables the transmission of LLDP packets on an interface. After you globally enable LLDP, it is enabled on all supported interfaces by default. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 593.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 232.	12.3.3.2 Setting the LLDP Hold Time The lldp holdtime command specifies the amount of time in seconds that a receiving device should hold the information sent by the device before discarding it. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 578.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 235.	**lldp timer** The lldp timer command specifies the amount of time a receiving device should hold the information sent by the device before discarding it. The no form of this command removes the configured LLDP timer. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 591.

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**lldp tlv-select** To configure the type, length, and value (TLV) descriptions to send and receive in Link Layer Discovery Protocol (LLDP) packets, use the **lldp tlv-select** command. To remove the TLV configuration, use the **no** form of this command. **lldp tlv-select** [dcbxp | management-address | port-description | port-vlan | system-capabilities | system-description | system-name] **no lldp tlv-select** [dcbxp | management-address | port-description | port-vlan | system-capabilities | system-description | system-name] Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 236.	12.3.3.5 Selecting the LLDP TLV The **lldp tlv-select** command configures the type, length, and value (TLV) descriptions to send and receive in Link Layer Discovery Protocol (LLDP) packets. Use the no form of this command to remove the TLV configuration. **Example** • This command enables the system descriptions to be included in the TLVs. switch(config)# `lldp tlv-select` system-description switch(config)# Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 578.

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Effective date of registration: 11/13/2014 | **logging console**

To enable logging messages to the console session, use the logging console command. To disable logging messages to the console session, use the no form of this command.

logging console [*severity level*]

no logging console

Syntax Description *severity-level* (Optional) Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
• 0—emergency: System unusable
• 1—alert: Immediate action needed
• 2 critical: Critical condition default level
• 3—error: Error condition
• 4 warning: Warning condition
• 5—notification: Normal but significant condition
• 6 informational: Informational message only
• 7—debugging: Appears during debugging only

Defaults None

Command Modes Global configuration mode

SupportedUserRoles network-admin / vdc-admin

Command History Release 4.0(1) Modification: This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to enable logging messages with a severity level of 4 (warning) or higher to the console session:
switch# configure terminal
switch(config)# logging console 4
switch(config)#

Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 242. | **logging trap system**

The logging trap system command enables the logging of system messages to a remote server, or limits the syslog messages saved to a remote server based on severity. Use this command without a specified level to enable remote logging.

The no logging trap system and default logging trap system commands clear the specified method list by removing the corresponding logging trap system command from *running-config*.

Platform all
Command Mode Global Configuration

Command Syntax
logging trap system [*FACILITY_LEVEL*] [*CONDITION*] [*PROGRAM*] [*TEXT*]
no logging trap system [*FACILITY_LEVEL*] [*CONDITION*] [*PROGRAM*] [*TEXT*]
default logging trap system [*FACILITY_LEVEL*] [*CONDITION*] [*PROGRAM*] [*TEXT*]

The *TEXT* parameter, when present, is always last. All other parameters can be placed in any order.

Parameters
• *FACILITY_LEVEL* Defines the appropriate facility.
— <no parameter> Specifies default facility.
— facility <*facility-name*> Specifies named facility.
• *CONDITION* Specifies condition level. Options include:
— <no parameter> Specifies default condition level.
— severity <*condition-level*> Name of the severity level at which messages should be logged.

Valid *condition-level* options include:
❊ 0 or emergencies System is unusable
❊ 1 or alerts Immediate action needed
❊ 2 or critical Critical conditions
❊ 3 or errors Error conditions
❊ 4 or warnings Warning conditions
❊ 5 or notifications Normal but significant conditions
❊ 6 or informational Informational messages
❊ 7 or debugging Debugging messages
• *PROGRAM* Filters packets based on program name. Options include:
— <no parameter> All tags or program names.
— tag *program-name* Specific tag or program name.
• *TEXT* Specifies log message text. Options include:
— <no parameter> Specify text contained in log message.
— contain *reg-expression* Specify text contained in log message.

Examples
• This command enables the logging of system informational messages to a remote server.
switch(config)#logging trap informational
switch(config)#

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 155. |

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To configure the interval between Precision Time Protocol (PTP) announce messages on an interface or the number of PTP intervals before a timeout occurs on an interface, use the **ptp announce** command. To remove the interval configuration for PTP messages, use the **no** form of this command. Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 330.	**Set the Peer Delay Request Interval** To configure the minimum interval allowed between Precision Time Protocol (PTP) peer delay-request messages, use the **ptp pdelay-req interval** command. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 273.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Examples** This example shows how to configure the interval between PTP announce messages on an interface: ```switch# configure terminal\nswitch(config)# interface ethernet 5/1\nswitch(config-if)# ptp announce interval 1\nswitch(config-if)#``` Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 330.	**Examples** • This command shows how to configure the interval between PTP announce messages on an interface. ```switch(config)# interface ethernet 5\nswitch(config-if-Et5)# ptp announce interval 1\nswitch(config-if-Et5)#``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 315.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Related Commands** Command / Description ptp — Enables or disables PTP on an interface. ptp announce — Configures the interval between PTP announce messages on an interface or the number of PTP intervals before a timeout occurs on an interface. ptp sync interval — Configures the interval between PTP synchronization messages on an interface. ptp vlan vlan — Configures the PTP VLAN value on an interface. Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 333.	**ptp announce interval** The ptp announce interval command configures the interval between PTP announcement messages on or the number of PTP intervals before a timeout occurs. To disable this feature, use the no form of this command. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 315.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**ptp delay-request minimum interval** To configure the minimum interval allowed between Precision Time Protocol (PTP) delay-request messages when the port is in the master state, use the **ptp delay-request minimum interval** command. To remove the minimum interval configuration for PTP delay-request messages, use the **no** form of this command. Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 332.	**ptp delay-req interval** The ptp delay-req interval command specifies the time recommended to the slave devices to send delay request messages. You must enable PTP on the switch first and configure the source IP address for PTP communication. To remove the minimum interval configuration for PTP delay-request messages, use the no form of this command. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 318.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 334.	 Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 328.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**ptp priority1** To configure the priority1 value when advertising the Precision Time Protocol (PTP) clock, use the **ptp priority1 command.** To remove the priority1 value, use the **no** form of this command. **ptp priority1** *priority-number* **no ptp priority1** *priority-number* **Syntax Description** *priority-number* Priority number. The range is from 0 to 255. **Defaults** 255 **Command Modes** Global configuration mode (config) **SupportedUserRoles** network-admin vdc-admin **Command History** Release Modification 5.2(1) This command was introduced. **Usage Guidelines** This command does not require a license. **Examples** This example shows how to configure the priority1 value when advertising the PTP clock: switch# **configure terminal** switch(config)# **ptp priority1** 10 This example shows how to remove the priority1 value when advertising the PTP clock: switch# **configure terminal** switch(config)# **no ptp priority1** 10 Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 336.	**Set the PTP Priority1** To configure the priority1 value when advertising the clock, use the **ptp priority1** command. This value overrides the default criteria for best master clock selection. Lower values take precedence. • The **ptp priority1** command configures the priority1 value of 120 to use when advertising the clock. switch(config)# **ptp priority1** 120 switch(config)# Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 272.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**Related Commands** <table><tr><td>Command</td><td>Description</td></tr><tr><td>feature ptp</td><td>Enables or disables PTP on the device.</td></tr><tr><td>ptp source</td><td>Configures the source IP address for all PTP packets.</td></tr><tr><td>ptp domain</td><td>Configures the domain number to use for this clock.</td></tr><tr><td>ptp priority2</td><td>Configures the priority2 value to use when advertising this clock.</td></tr><tr><td>show ptp brief</td><td>Displays the PTP status.</td></tr><tr><td>show ptp clock</td><td>Displays the properties of the local clock.</td></tr></table> Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 336.	**ptp domain** The ptp domain command configures the domain number to use for the clock. PTP domains allow you to use multiple independent PTP clocking subdomains on a single network. To remove PTP settings, use the no form of this command. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 319.

EXHIBIT A TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

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Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	ptp priority2
	
	To configure the priority2 value when advertising the Precision Time Protocol (PTP) clock, use the ptp priority2 command. To remove the priority2 value when advertising the PTP, use the no form of this command.
	
	ptp priority2 *priority-number*
	
	no ptp priority2 *priority-number*
	
	Syntax Description *priority-number* Priority number. The range is from 0 to 255.
	
	Defaults 255
	
	Command Modes Global configuration mode (config)
	
	SupportedUserRoles network-admin
	vdc-admin
	
	Command History Release Modification
	5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to configure the priority2 value when advertising the PTP clock:
	`switch# configure terminal`
	`switch(config)# ptp priority2 1`
	
	This example shows how to remove the priority2 value configuration for use when advertising the PTP clock:
	`switch# configure terminal`
	`switch(config)# no ptp priority2 1`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 337.
		Set the PTP Prioriity2
		
		To configure the priority2 value when advertising this clock, use the ptp priority2 command. This value is used to decide between two devices that are otherwise equally matched in the default criteria.
		
		• The ptp priority2 command configures the priority2 value of 128 to use when advertising this clock.
		`switch(config)# ptp priority2 128`
		`switch(config)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 272.

EXHIBIT A TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES